

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121719\
 Data File : VX014061.D
 Acq On : 17 Dec 2019 18:56
 Operator : JC/SP
 Sample : K6251-19
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW203D2-20191207

Quant Time: Dec 18 07:15:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	559766	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	851274	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	755207	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	316999	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	314955	49.64	ug/l	0.00
Spiked Amount			Recovery	=	99.28%	
35) Dibromofluoromethane	5.49	113	254273	49.14	ug/l	0.00
Spiked Amount			Recovery	=	98.28%	
50) Toluene-d8	8.71	98	1009127	50.09	ug/l	0.00
Spiked Amount			Recovery	=	100.18%	
62) 4-Bromofluorobenzene	11.13	95	330490	44.88	ug/l	0.00
Spiked Amount			Recovery	=	89.76%	

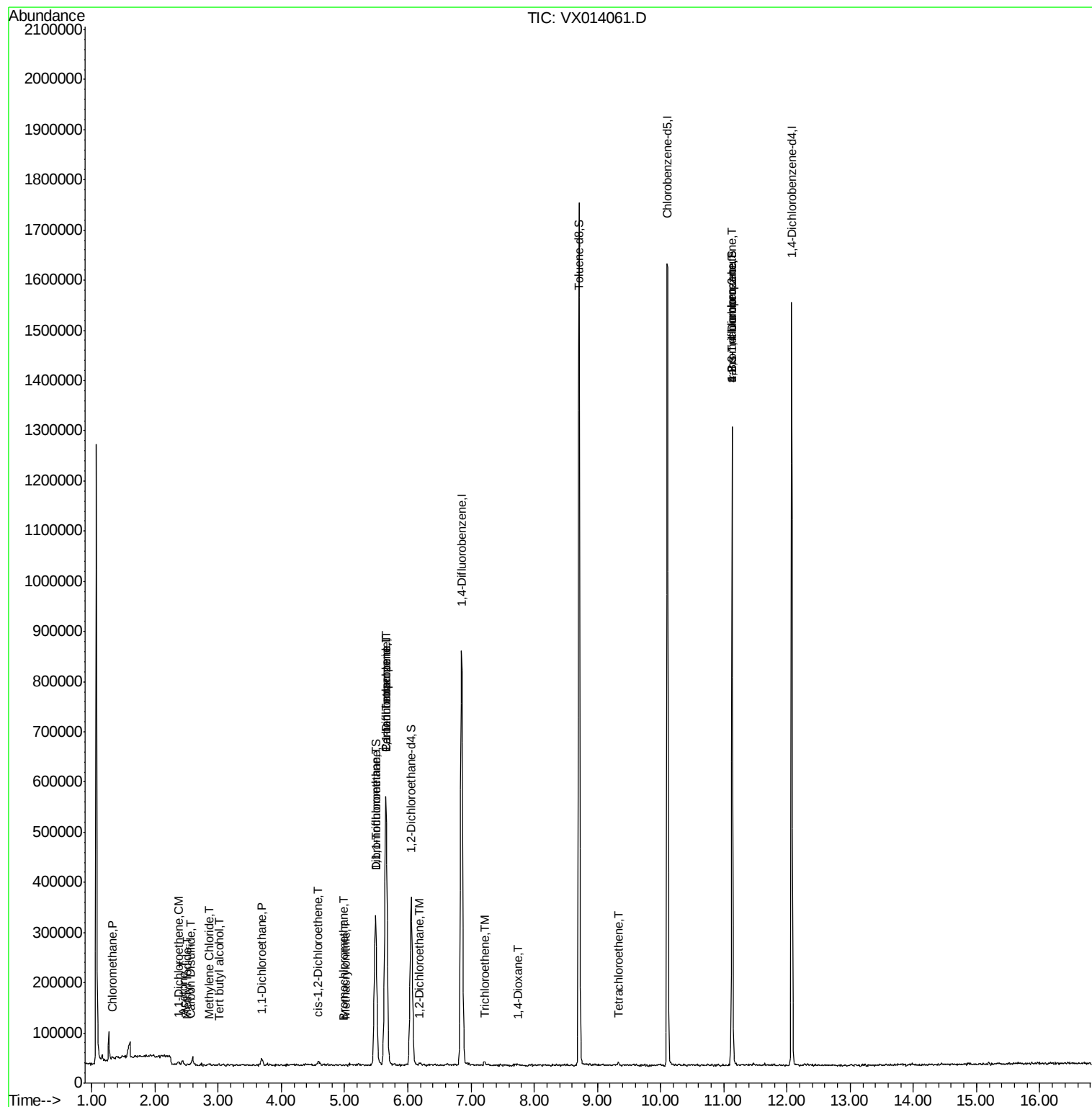
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2256	0.336	ug/l #	85
10) Methyl Iodide	2.50	142	202	2.648	ug/l #	1
11) Tert butyl alcohol	3.03	59	996	0.727	ug/l #	1
12) 1,1-Dichloroethene	2.37	96	2451	0.455	ug/l	90
16) Acetone	2.44	43	10415	2.529	ug/l	99
17) Carbon Disulfide	2.56	76	2219	0.896	ug/l #	75
20) Methylene Chloride	2.85	84	1594	0.246	ug/l #	68
24) 1,1-Dichloroethane	3.69	63	16957	1.591	ug/l	98
27) cis-1,2-Dichloroethene	4.59	96	5538	0.825	ug/l	98
28) Bromochloromethane	4.99	49	941	0.681	ug/l #	11
32) 1,1,1-Trichloroethane	5.50	97	1838	0.213	ug/l #	50
36) 1,1-Dichloropropene	5.65	75	37008	4.738	ug/l #	52
38) Carbon Tetrachloride	5.65	117	49212	6.916	ug/l #	16
41) Methacrylonitrile	5.01	41	1230	0.257	ug/l #	57
42) 1,2-Dichloroethane	6.18	62	5819	0.714	ug/l	97
44) Trichloroethene	7.21	130	3681	0.555	ug/l	56
49) 1,4-Dioxane	7.75	88	514	3.613	ug/l #	1
64) Tetrachloroethene	9.32	164	1715	0.257	ug/l #	63
76) 1,2,3-Trichloropropane	11.13	75	164165	23.854	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	164165	67.329	ug/l #	12

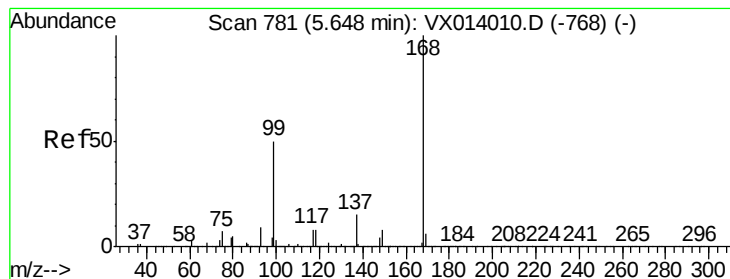
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014061.D

Acq: 17 Dec 2019 18:56

Instrument :

MSVOA_X

ClientSampleId :

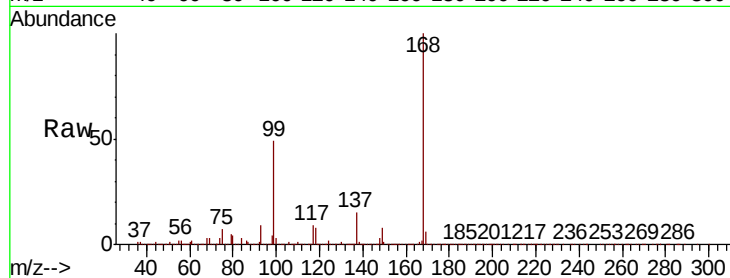
MW203D2-20191207

Tot Ion:168 Resp: 559766

Ion Ratio Lower Upper

168 100

99 48.5 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

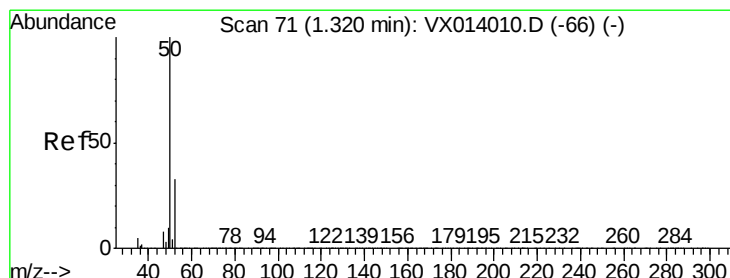
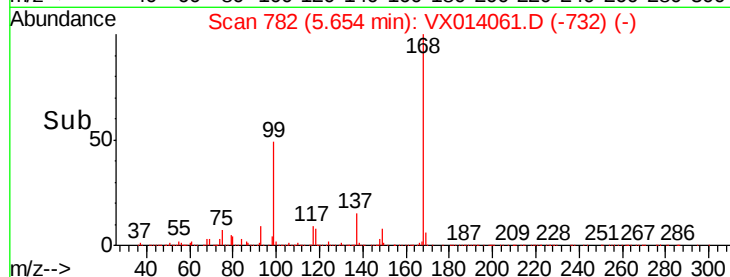
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.336 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX014061.D

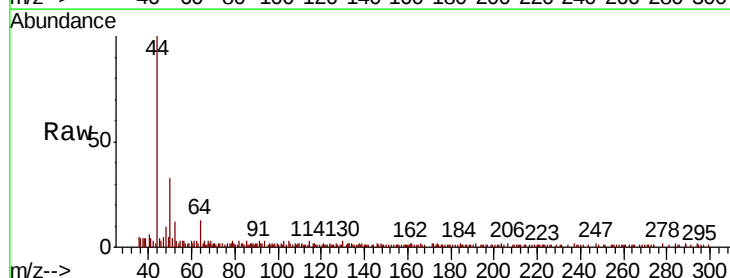
Acq: 17 Dec 2019 18:56

Tgt Ion: 50 Resp: 2256

Ion Ratio Lower Upper

50 100

52 41.3 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

3000

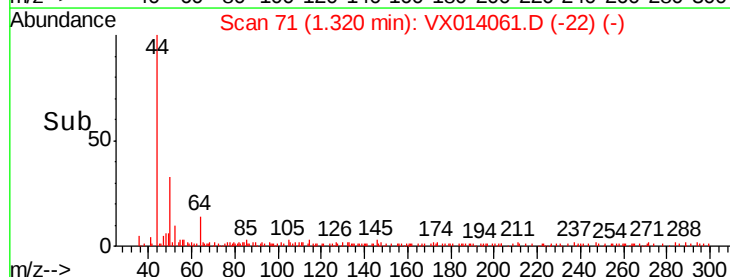
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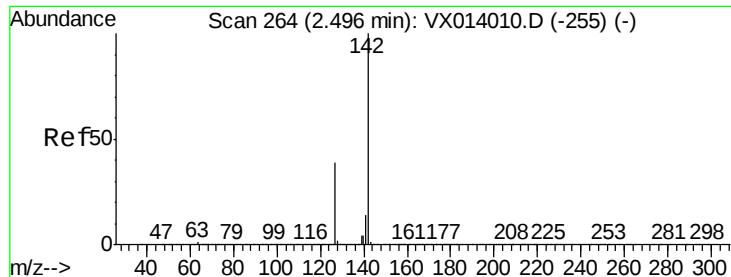
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0

Time-->

1.28 1.30 1.32 1.34

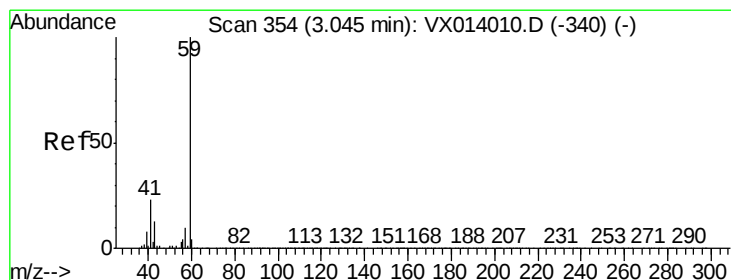
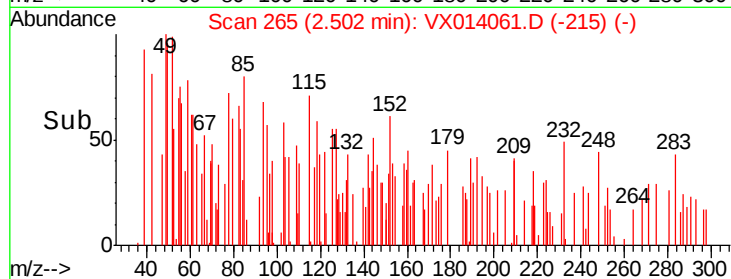
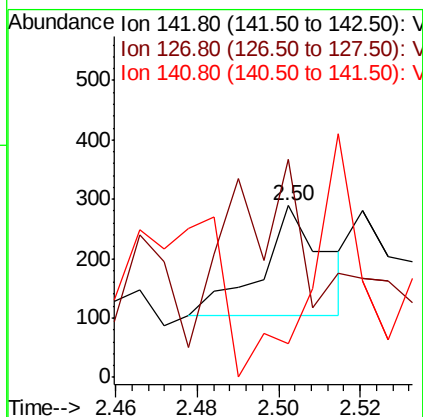
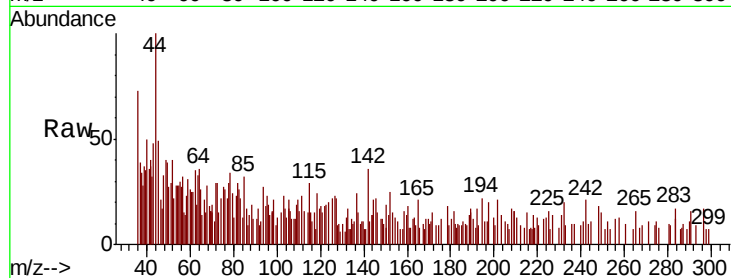




#10
Methvl Iodide
Concen: 2.648 ug/l
RT: 2.50 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX014061.D
Acq: 17 Dec 2019 18:56

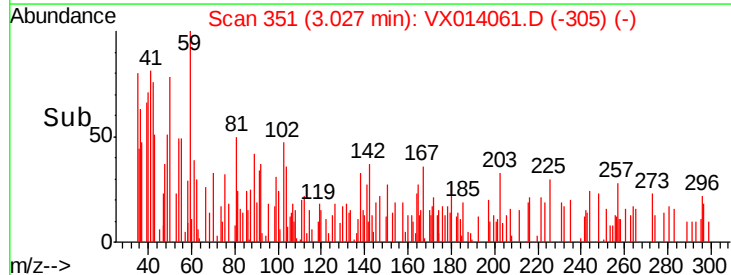
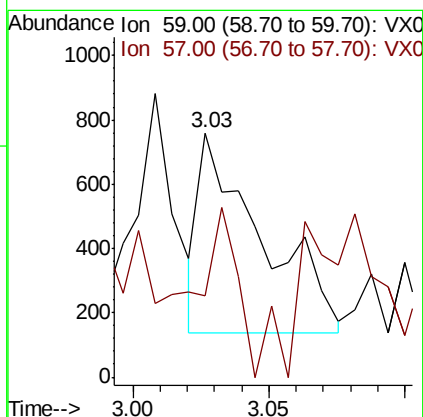
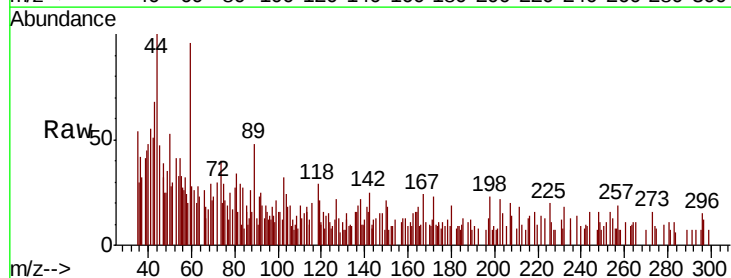
Instrument :
MSVOA_X
ClientSampleId :
MW203D2-20191207

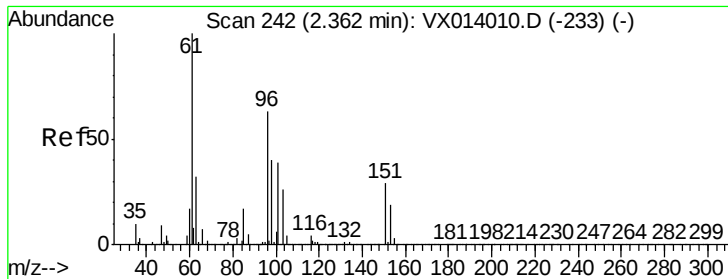
Tot Ion:142 Resp: 202
Ion Ratio Lower Upper
142 100
127 224.3 31.6 47.4#
141 100.0 11.6 17.4#



#11
Tert butyl alcohol
Concen: 0.727 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.02 min
Lab File: VX014061.D
Acq: 17 Dec 2019 18:56

Tgt Ion: 59 Resp: 996
Ion Ratio Lower Upper
59 100
57 49.7 8.4 12.6#

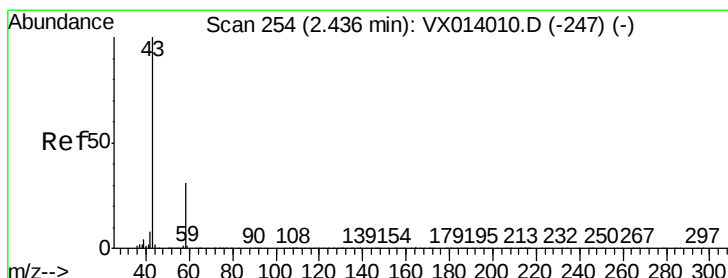
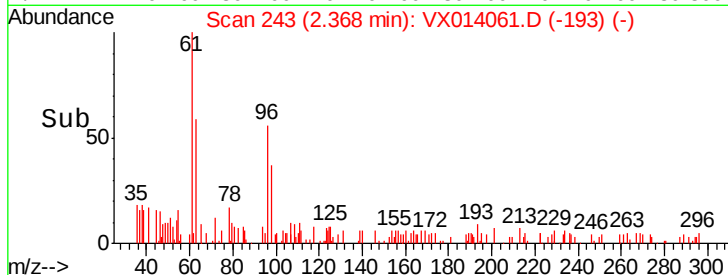
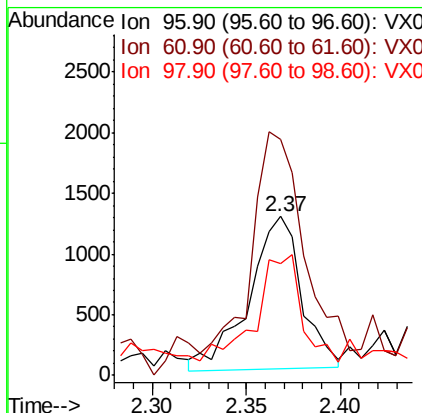
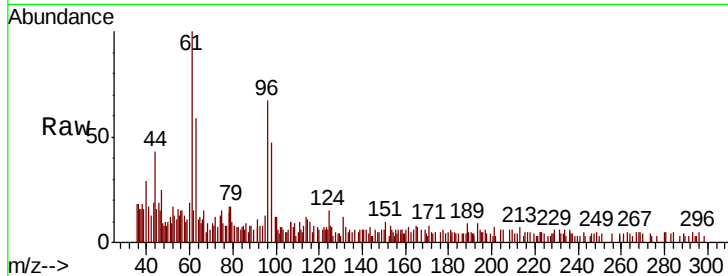




#12
 1,1-Dichloroethene
 Concen: 0.455 ug/l
 RT: 2.37 min Scan# 243
 Delta R.T. 0.01 min
 Lab File: VX014061.D
 Acq: 17 Dec 2019 18:56

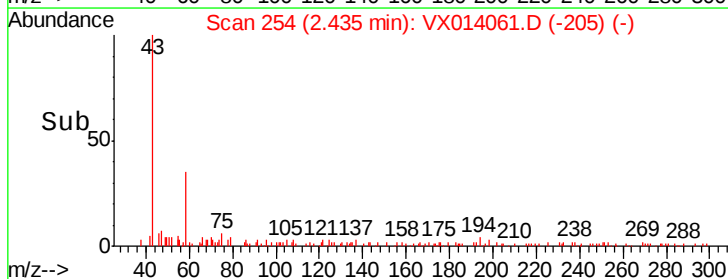
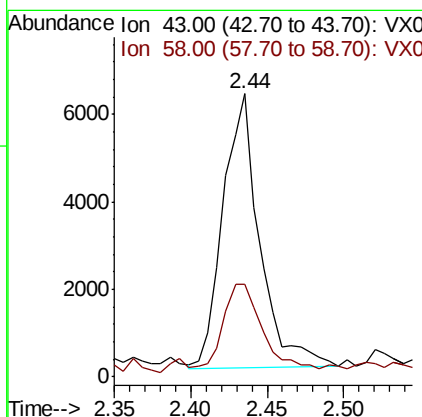
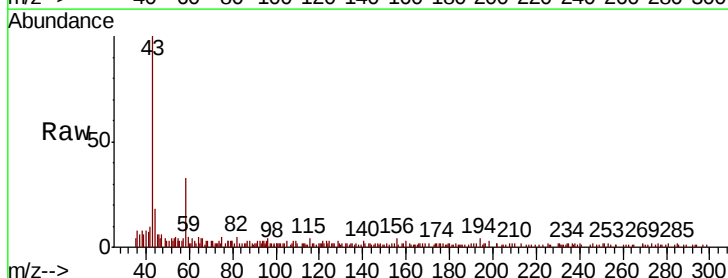
Instrument :
 MSVOA_X
 ClientSampleId :
 MW203D2-20191207

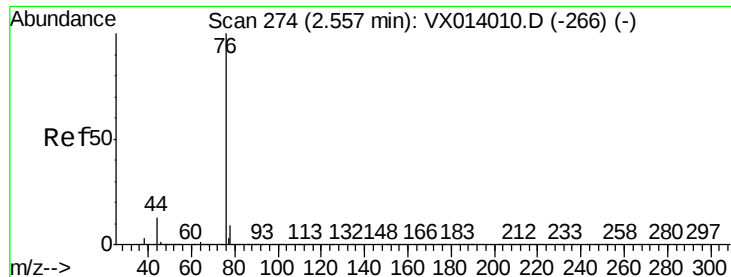
Tot Ion: 96 Resp: 2451
 Ion Ratio Lower Upper
 96 100
 61 142.0 127.9 191.9
 98 63.5 50.5 75.7



#16
 Acetone
 Concen: 2.529 ug/l
 RT: 2.44 min Scan# 254
 Delta R.T. -0.00 min
 Lab File: VX014061.D
 Acq: 17 Dec 2019 18:56

Tgt Ion: 43 Resp: 10415
 Ion Ratio Lower Upper
 43 100
 58 30.7 24.9 37.3





#17

Carbon Disulfide

Concen: 0.896 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014061.D

Acq: 17 Dec 2019 18:56

Instrument :

MSVOA_X

ClientSampleId :

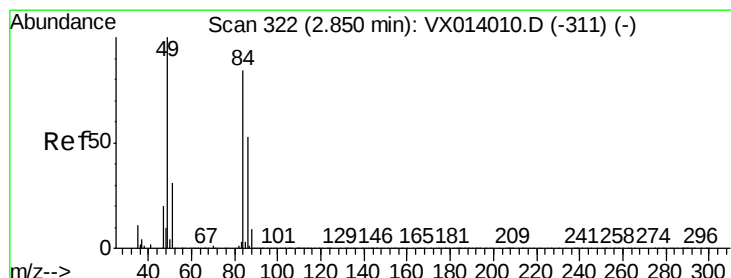
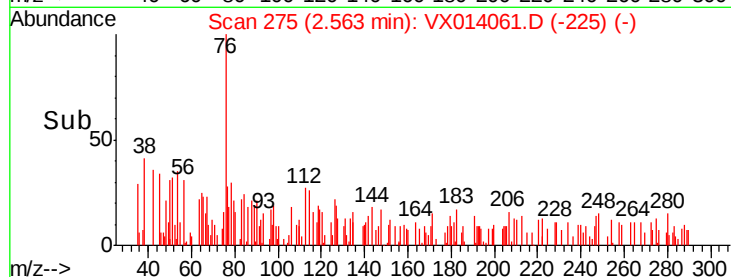
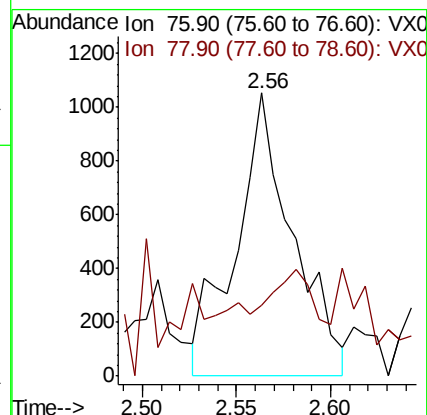
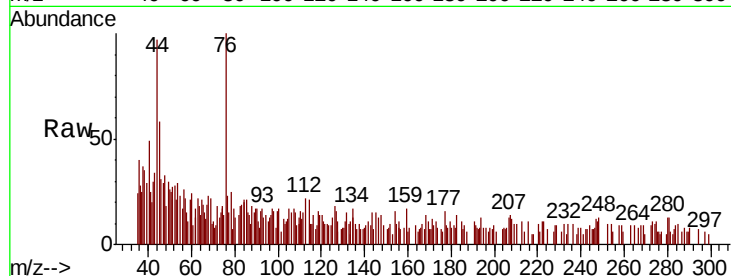
MW203D2-20191207

Tot Ion: 76 Resp: 2219

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



#20

Methylene Chloride

Concen: 0.246 ug/l

RT: 2.85 min Scan# 322

Delta R.T. -0.00 min

Lab File: VX014061.D

Acq: 17 Dec 2019 18:56

Tgt Ion: 84 Resp: 1594

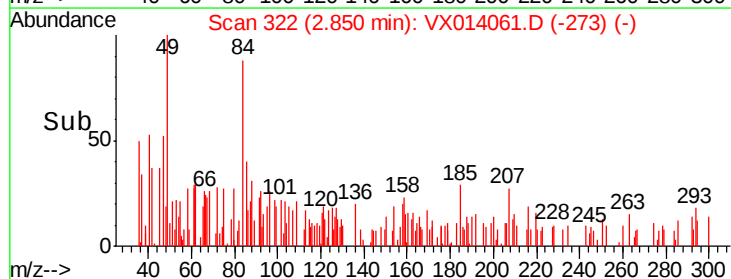
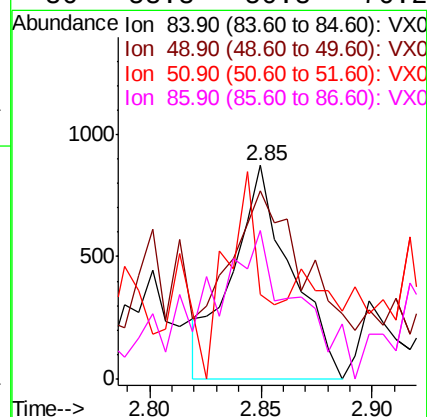
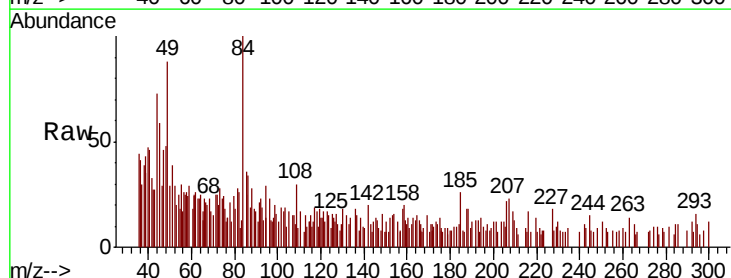
Ion Ratio Lower Upper

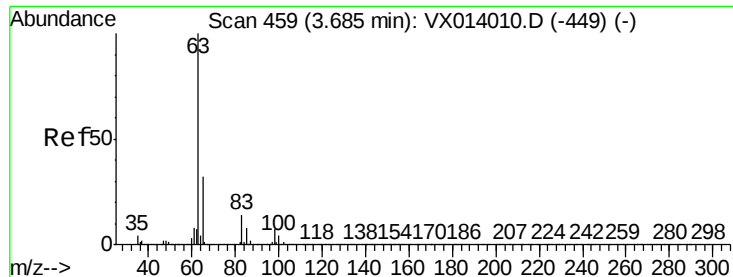
84 100

49 74.5 95.8 143.6#

51 9.3 29.8 44.8#

86 58.8 50.8 76.2





#24

1,1-Dichloroethane

Concen: 1.591 ug/l

RT: 3.69 min Scan# 459

Delta R.T. -0.00 min

Lab File: VX014061.D

Acq: 17 Dec 2019 18:56

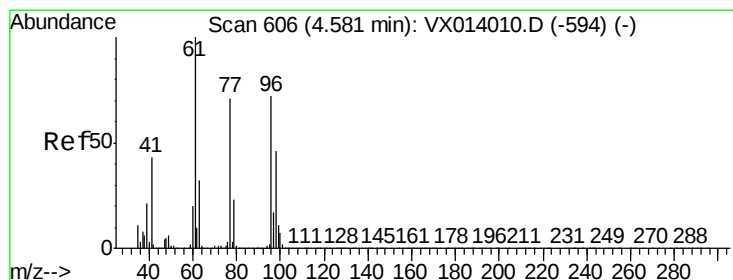
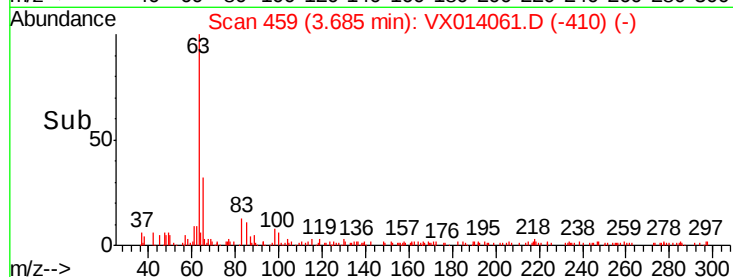
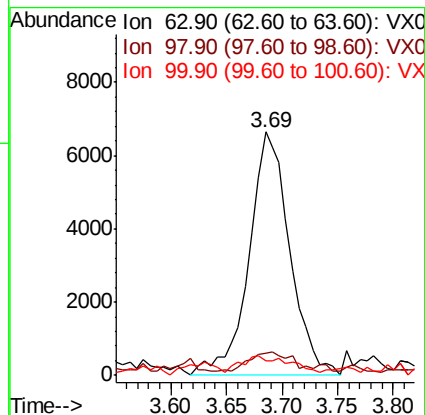
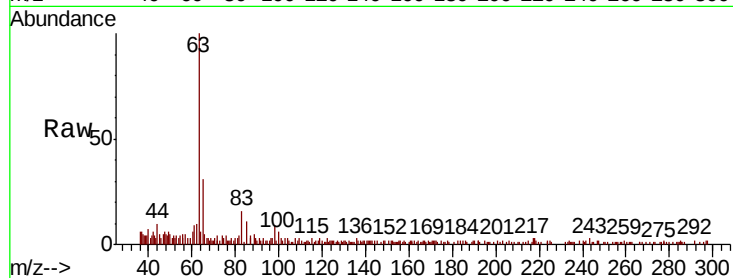
Instrument :

MSVOA_X

ClientSampleId :

MW203D2-20191207

Tot Ion:	63	Resp:	16957
Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.6	10.8
100	3.1	2.3	6.8



#27

cis-1,2-Dichloroethene

Concen: 0.825 ug/l

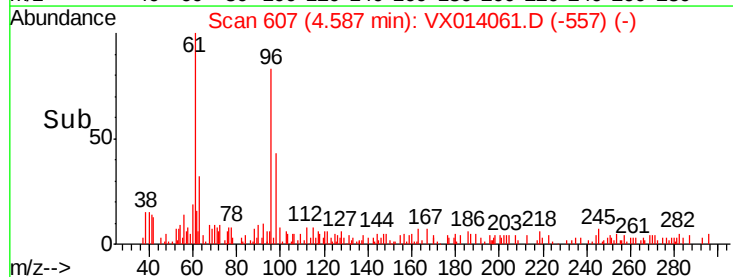
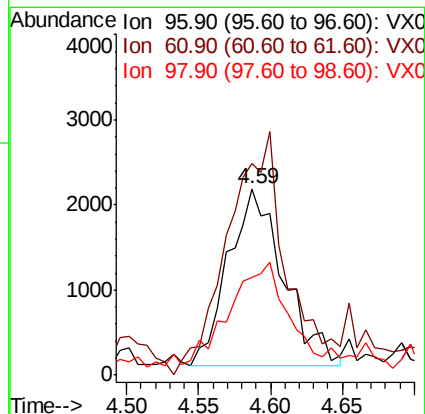
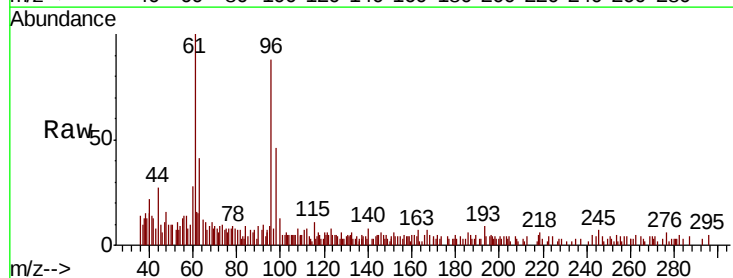
RT: 4.59 min Scan# 607

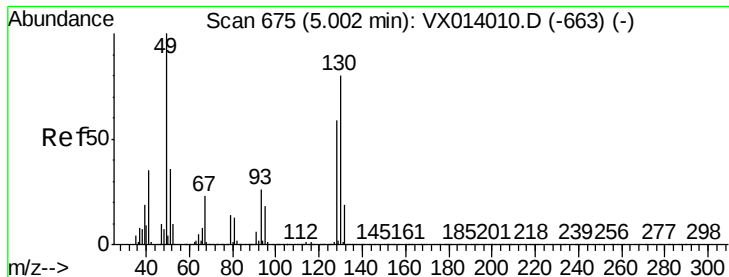
Delta R.T. 0.01 min

Lab File: VX014061.D

Acq: 17 Dec 2019 18:56

Tgt Ion:	96	Resp:	5538
Ion	Ratio	Lower	Upper
96	100		
61	142.3	0.0	288.4
98	61.8	0.0	129.6





#28

Bromochloromethane

Concen: 0.681 ug/l

RT: 4.99 min Scan# 673

Delta R.T. -0.01 min

Lab File: VX014061.D

Acq: 17 Dec 2019 18:56

Instrument :

MSVOA_X

ClientSampleId :

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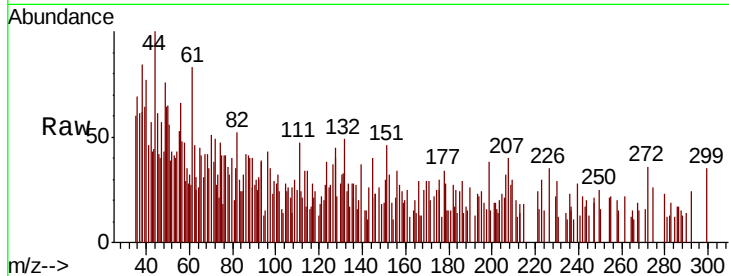
Tot Ion: 49 Resp: 941

Ion Ratio Lower Upper

49 100

129 9.7 0.0 5.0#

130 0.0 64.6 97.0#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

800

600

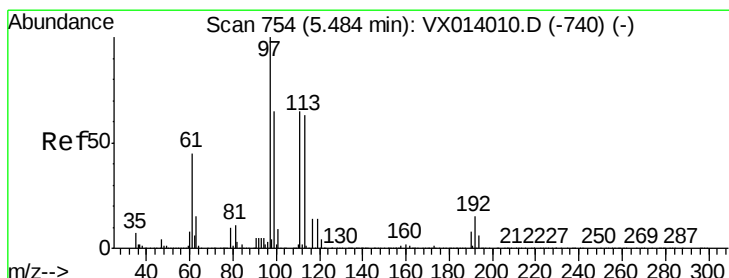
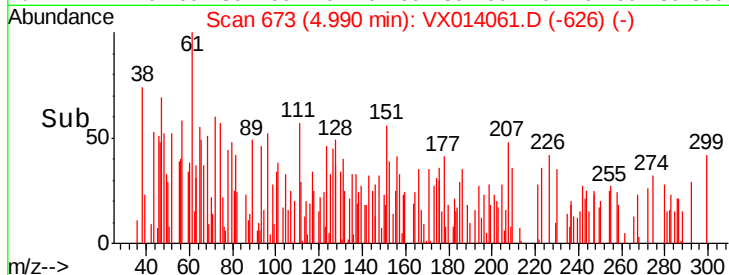
400

200

0

4.94 4.96 4.98 5.00

Time-->



#32

1,1,1-Trichloroethane

Concen: 0.213 ug/l

RT: 5.50 min Scan# 756

Delta R.T. 0.01 min

Lab File: VX014061.D

Acq: 17 Dec 2019 18:56

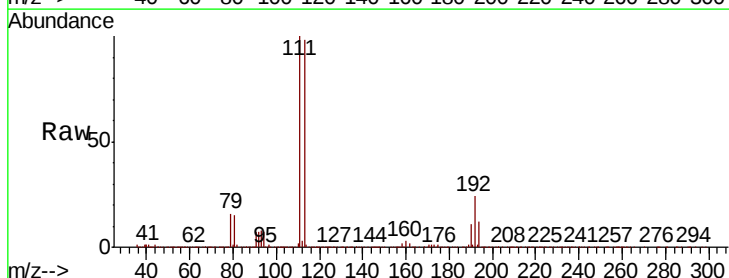
Tgt Ion: 97 Resp: 1838

Ion Ratio Lower Upper

97 100

99 0.0 52.0 78.0#

61 42.6 36.7 55.1



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

1200

1000

800

600

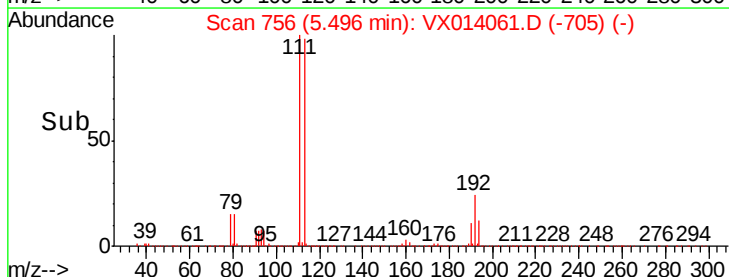
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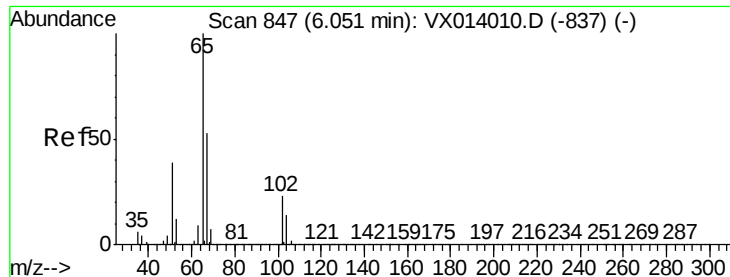
200

0

5.40 5.45 5.50

Time-->

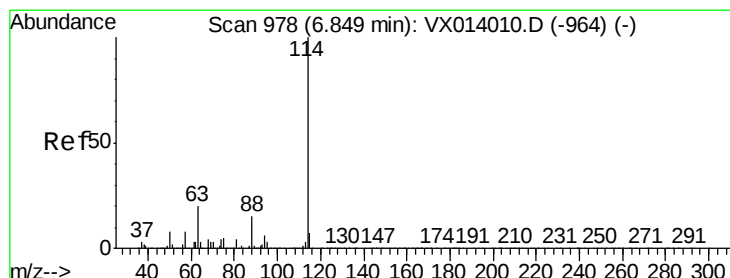
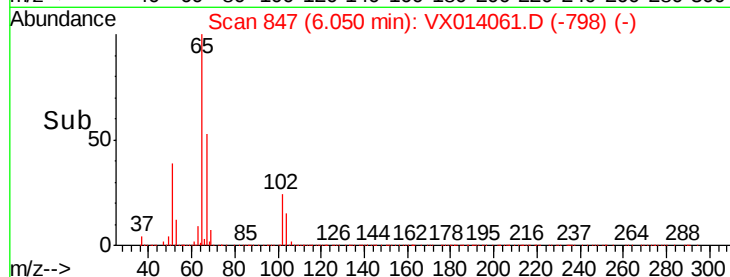
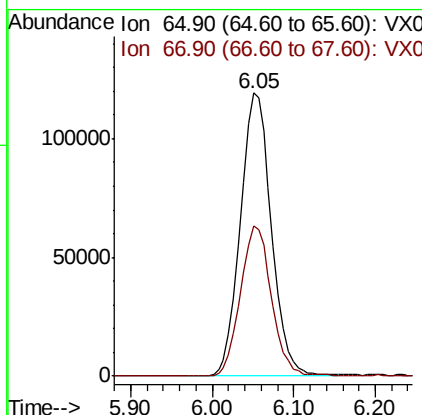
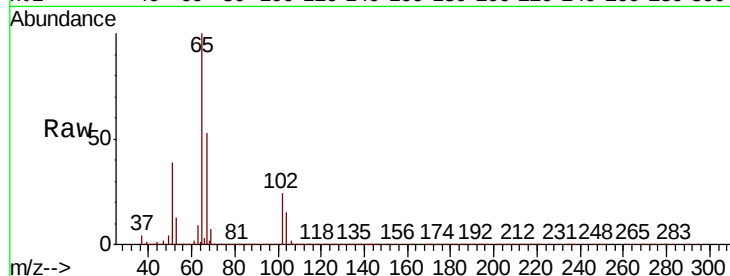




#33
 1,2-Dichloroethane-d4
 Concen: 49.645 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: VX014061.D
 Acq: 17 Dec 2019 18:56

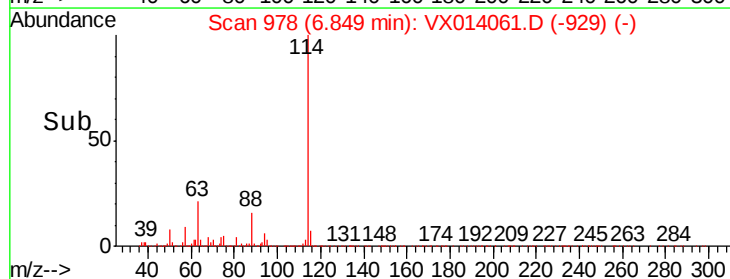
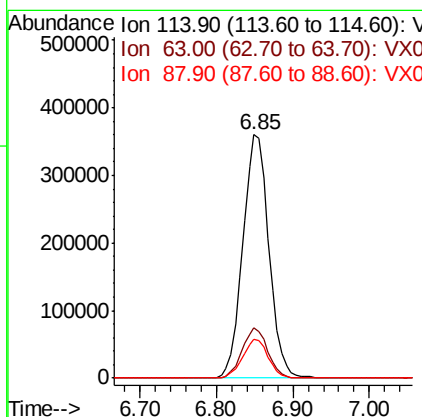
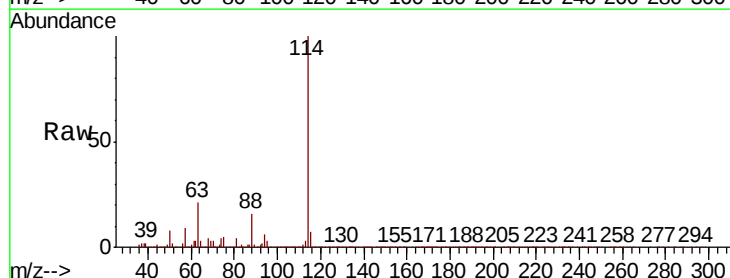
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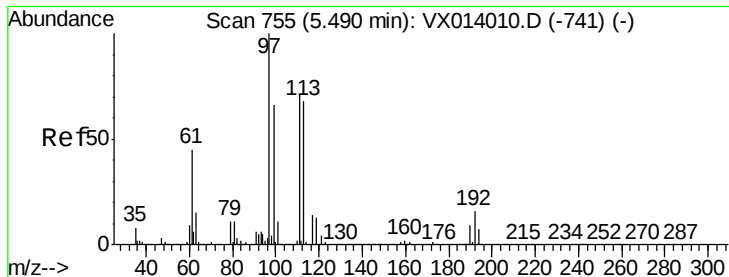
Tot Ion: 65 Resp: 314955
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX014061.D
 Acq: 17 Dec 2019 18:56

Tgt Ion: 114 Resp: 851274
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 40.8
 88 16.0 0.0 30.4





#35

Dibromofluoromethane

Concen: 49.137 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX014061.D

Acq: 17 Dec 2019 18:56

Instrument :

MSVOA_X

ClientSampleId :

MW203D2-20191207

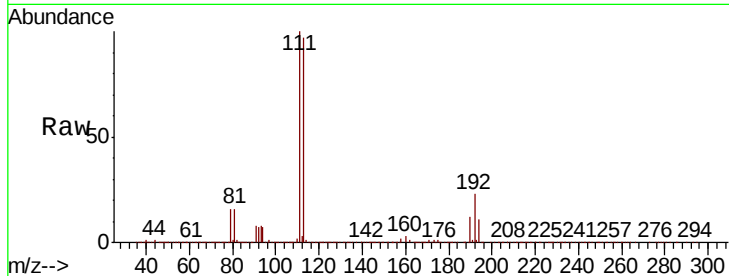
Tot Ion:113 Resp: 254273

Ion Ratio Lower Upper

113 100

111 103.5 82.0 123.0

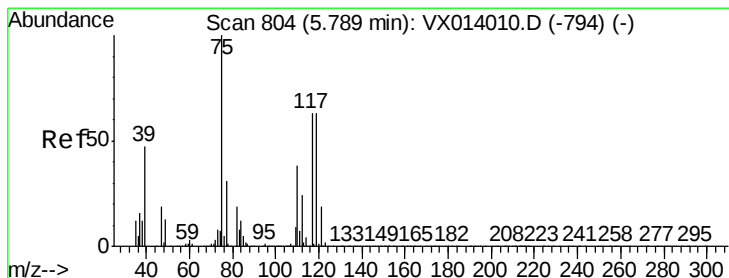
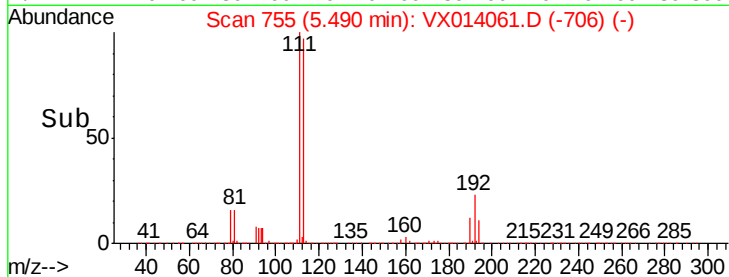
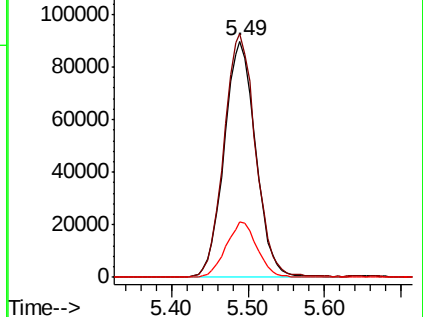
192 23.3 19.3 28.9



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.738 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX014061.D

Acq: 17 Dec 2019 18:56

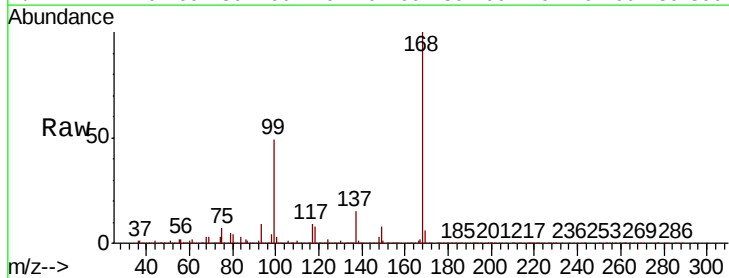
Tgt Ion: 75 Resp: 37008

Ion Ratio Lower Upper

75 100

110 10.9 18.3 54.9#

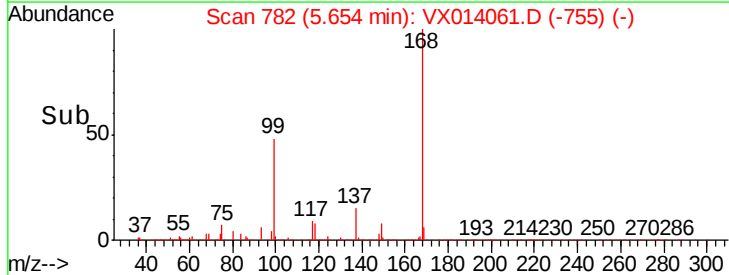
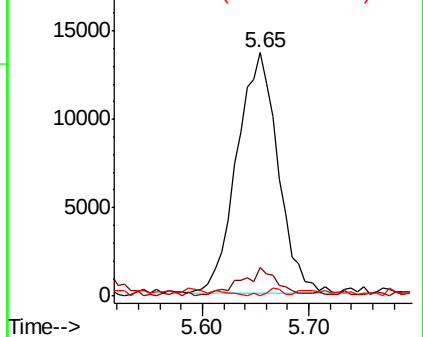
77 1.2 24.8 37.2#

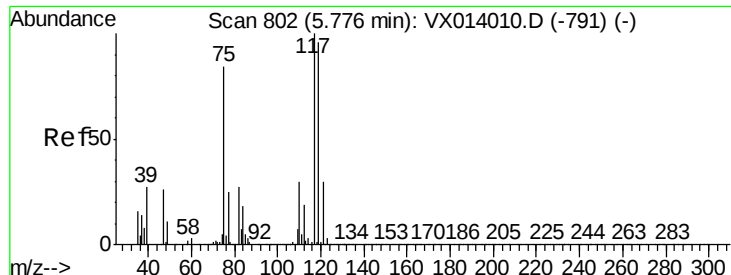


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.916 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014061.D

Acq: 17 Dec 2019 18:56

Instrument :

MSVOA_X

ClientSampleId :

MW203D2-20191207

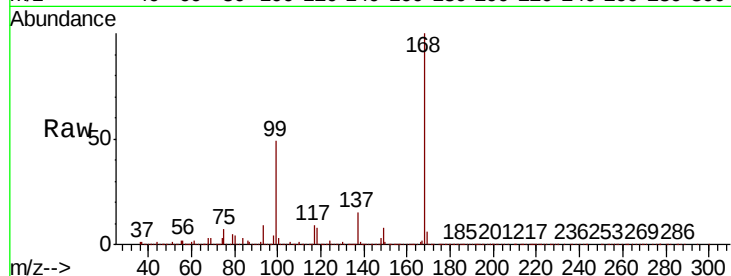
Tot Ion:117 Resp: 49212

Ion Ratio Lower Upper

117 100

119 4.6 76.2 114.4#

121 0.1 23.6 35.4#

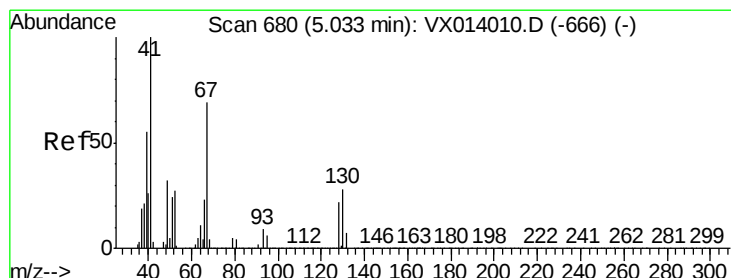
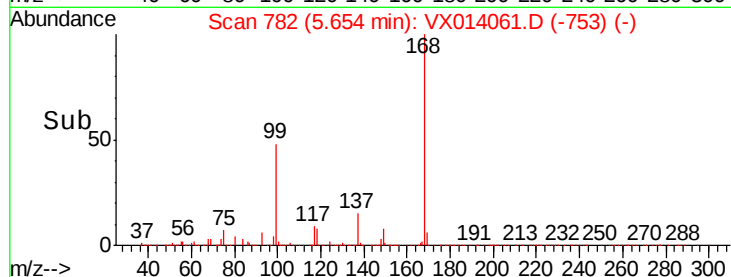
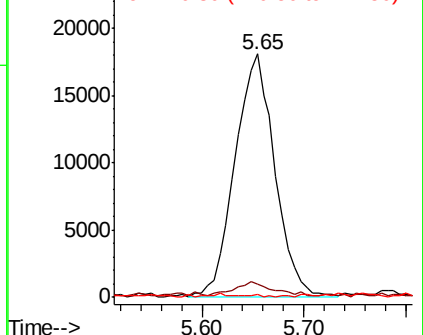


Abundance

Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.257 ug/l

RT: 5.01 min Scan# 677

Delta R.T. -0.02 min

Lab File: VX014061.D

Acq: 17 Dec 2019 18:56

Tgt Ion: 41 Resp: 1230

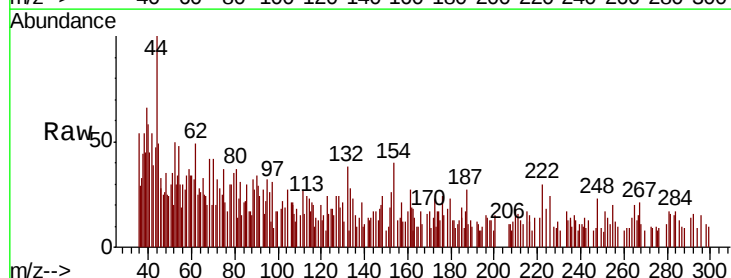
Ion Ratio Lower Upper

41 100

39 70.2 44.5 66.7#

67 8.8 57.4 86.0#

52 32.6 23.0 34.4



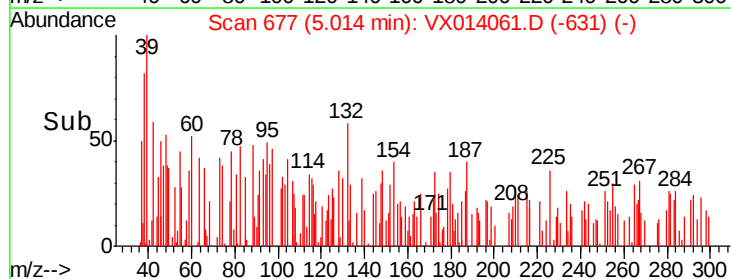
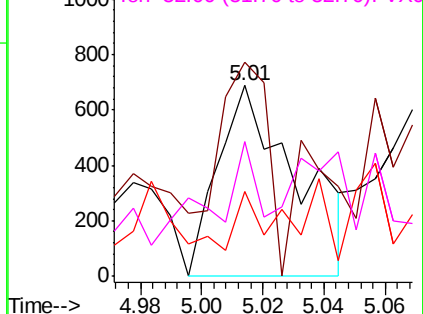
Abundance

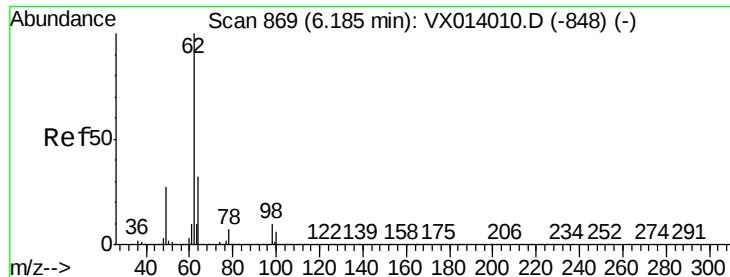
Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#42

1,2-Dichloroethane

Concen: 0.714 ug/l

RT: 6.18 min Scan# 868

Delta R.T. -0.01 min

Lab File: VX014061.D

Acq: 17 Dec 2019 18:56

Instrument :

MSVOA_X

ClientSampleId :

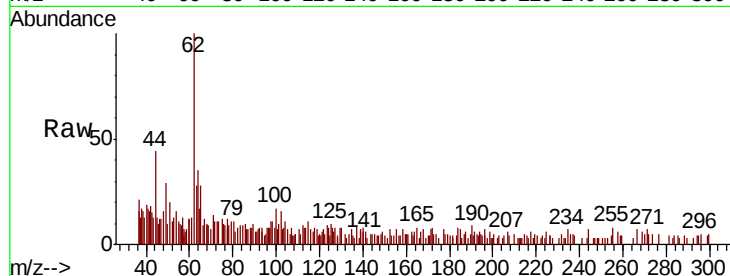
MW203D2-20191207

Tot Ion: 62 Resp: 5819

Ion Ratio Lower Upper

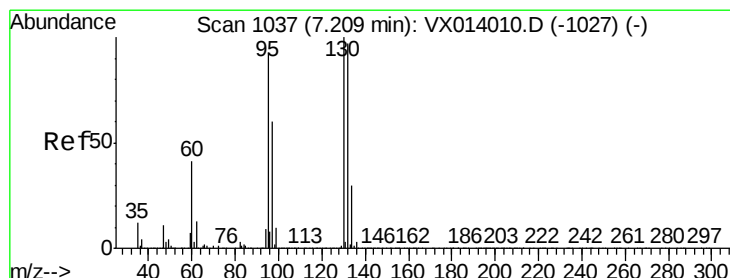
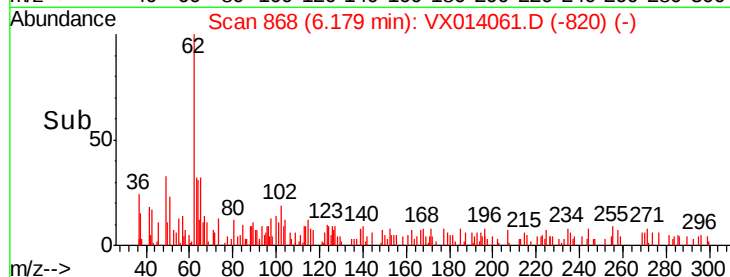
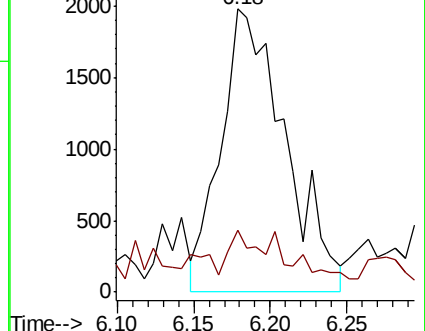
62 100

98 9.2 0.0 21.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#44

Trichloroethene

Concen: 0.555 ug/l

RT: 7.21 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VX014061.D

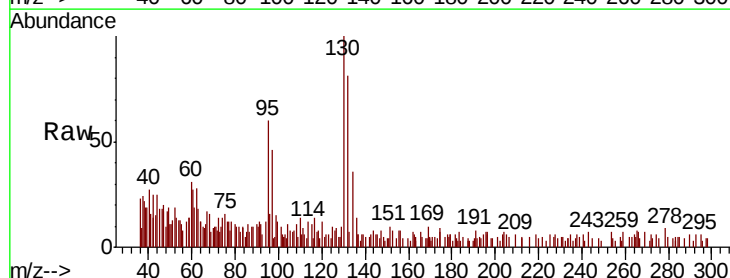
Acq: 17 Dec 2019 18:56

Tgt Ion:130 Resp: 3681

Ion Ratio Lower Upper

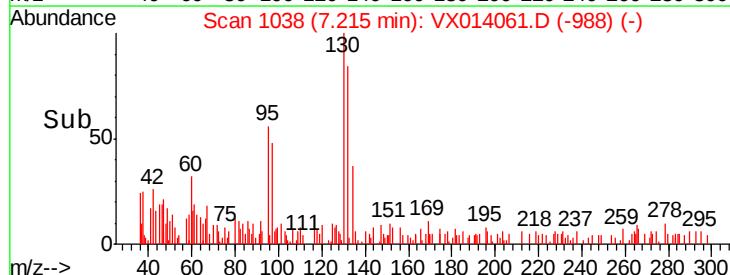
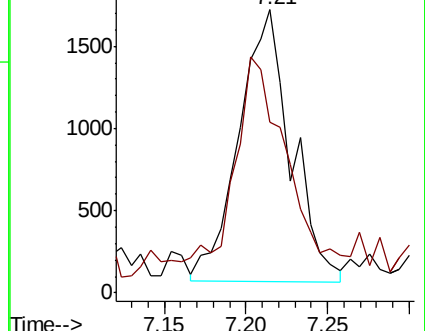
130 100

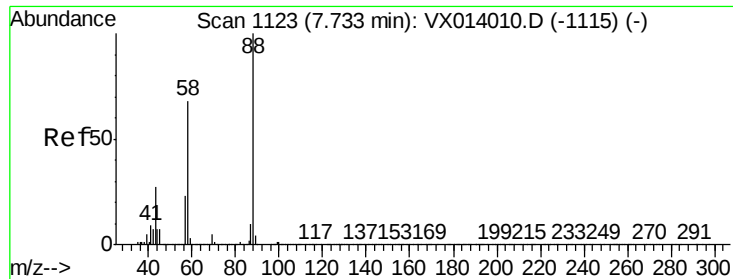
95 50.9 0.0 185.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 3.613 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VX014061.D

Acq: 17 Dec 2019 18:56

Instrument :

MSVOA_X

ClientSampleId :

MW203D2-20191207

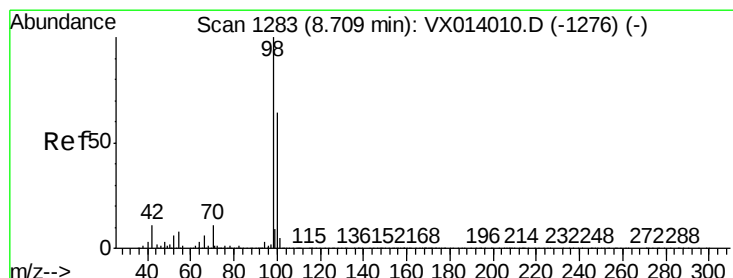
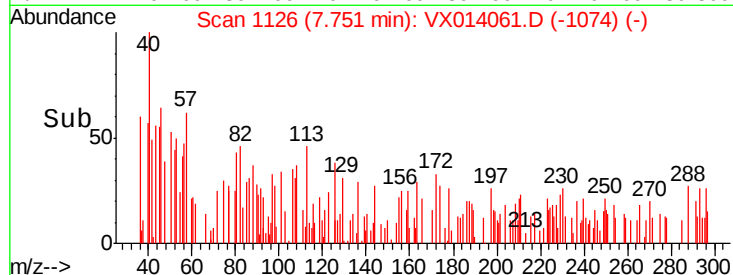
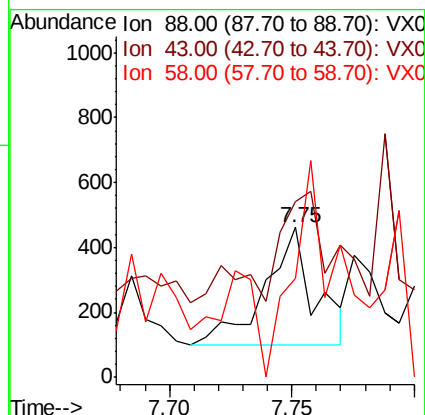
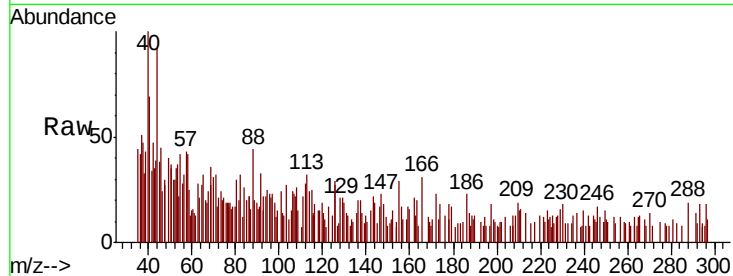
Tot Ion: 88 Resp: 514

Ion Ratio Lower Upper

88 100

43 135.8 26.5 39.7#

58 166.5 56.8 85.2#



#50

Toluene-d8

Concen: 50.089 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX014061.D

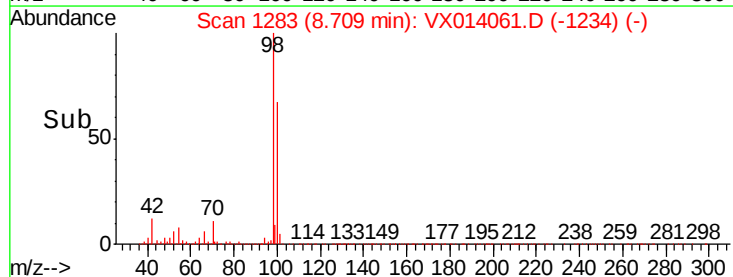
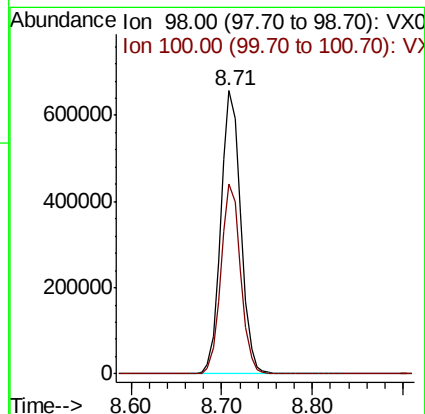
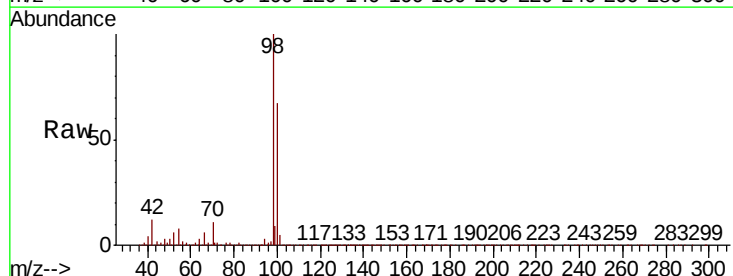
Acq: 17 Dec 2019 18:56

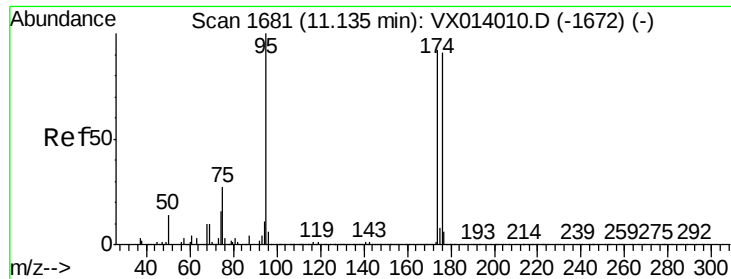
Tgt Ion: 98 Resp: 1009127

Ion Ratio Lower Upper

98 100

100 65.9 52.9 79.3

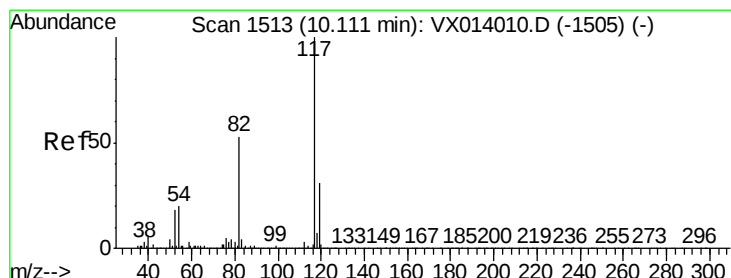
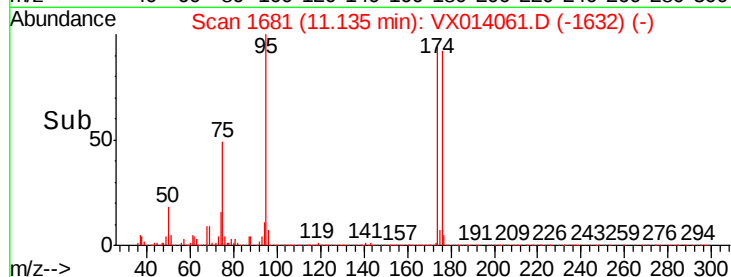
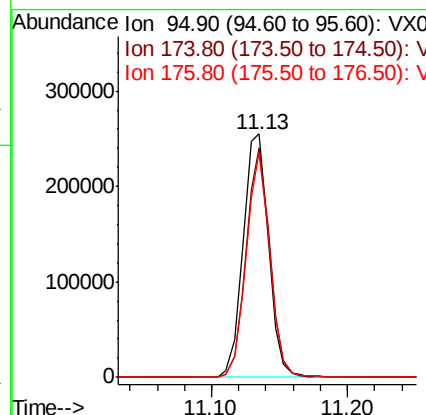
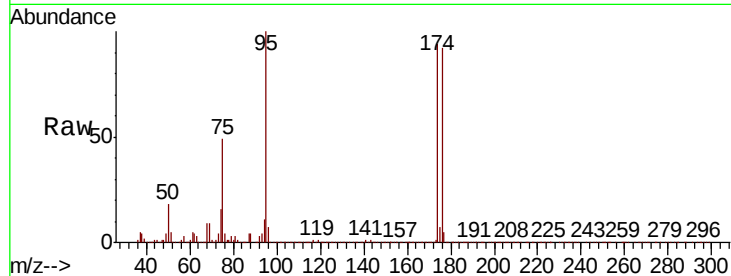




#62
4-Bromofluorobenzene
Concen: 44.876 ug/l
RT: 11.13 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX014061.D
Acq: 17 Dec 2019 18:56

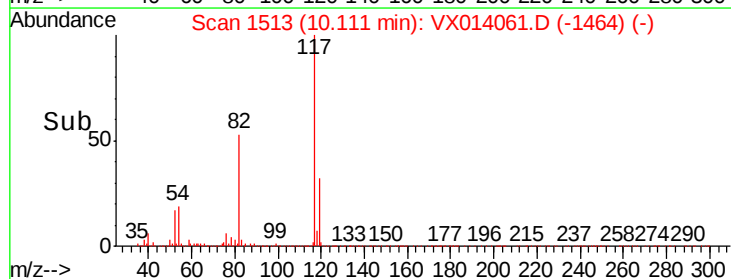
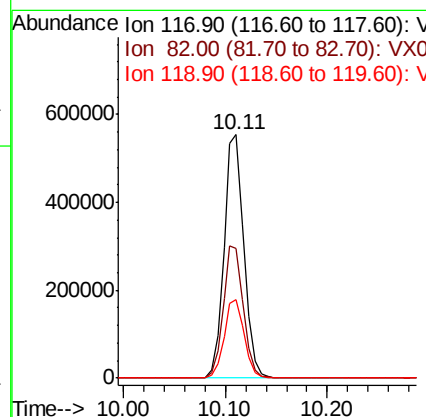
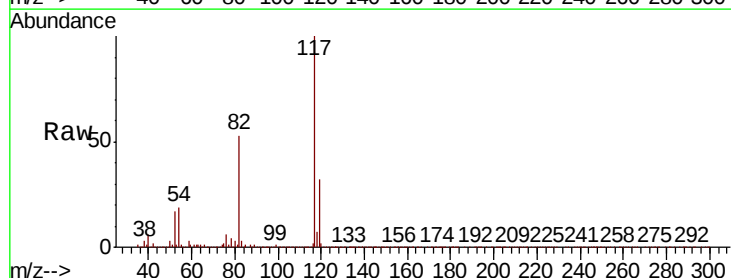
Instrument :
MSVOA_X
ClientSampleId :
MW203D2-20191207

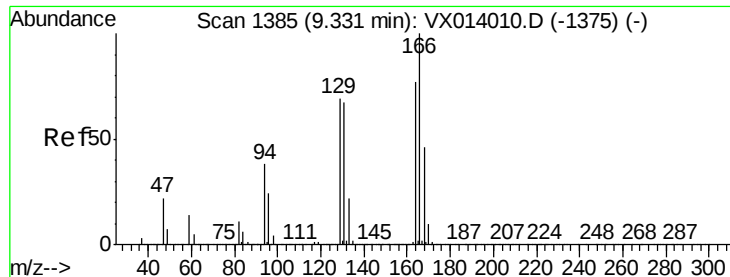
Tot Ion	Ratio	Lower	Upper
95	100		
174	88.8	0.0	175.8
176	86.3	0.0	173.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX014061.D
Acq: 17 Dec 2019 18:56

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.1	42.2	63.4
119	32.1	25.1	37.7





#64

Tetrachloroethene

Concen: 0.257 ug/l

RT: 9.32 min Scan# 1384

Delta R.T. -0.01 min

Lab File: VX014061.D

Acq: 17 Dec 2019 18:56

Instrument :

MSVOA_X

ClientSampleId :

MW203D2-20191207

Tot Ion:164 Resp: 1715

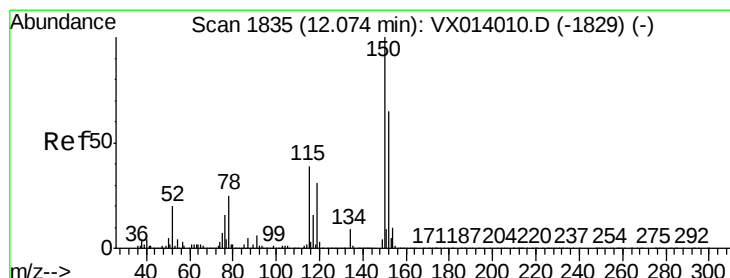
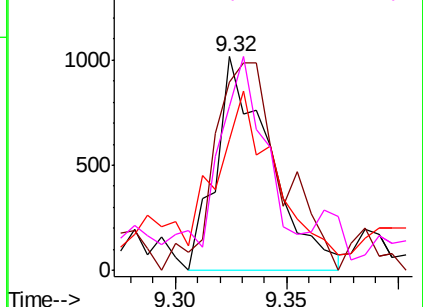
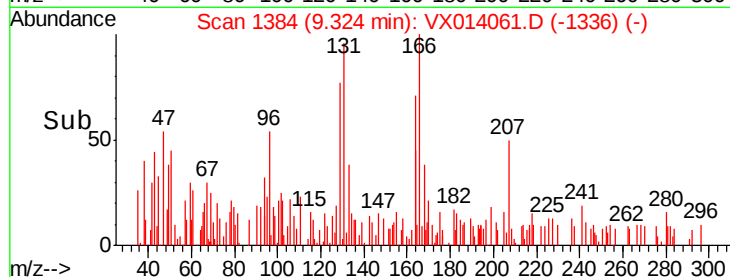
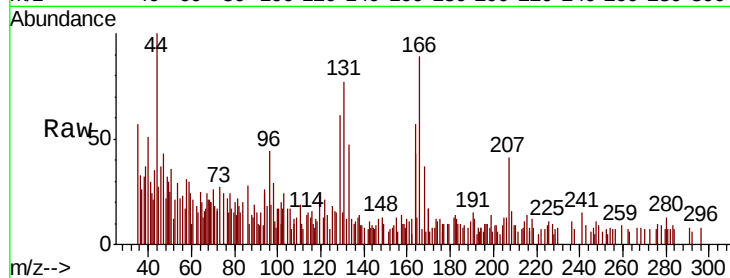
Ion Ratio Lower Upper

164 100

166 88.4 104.0 156.0#

129 54.0 72.2 108.4#

131 51.2 69.6 104.4#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX014061.D

Acq: 17 Dec 2019 18:56

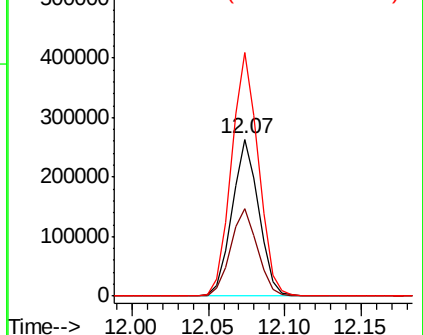
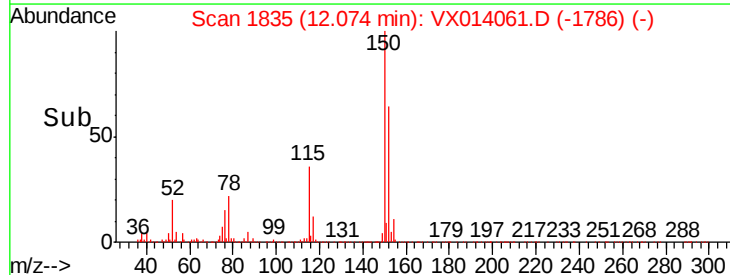
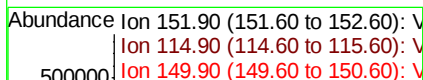
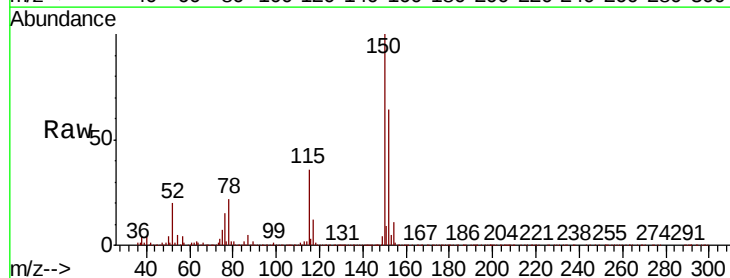
Tgt Ion:152 Resp: 316999

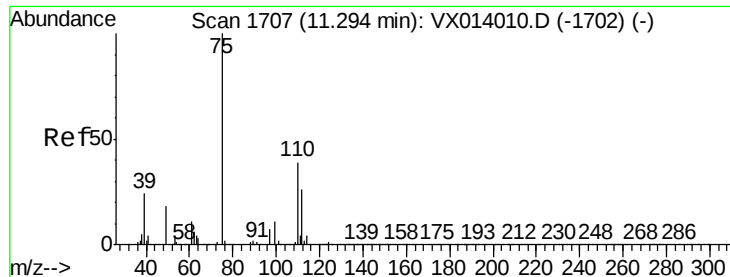
Ion Ratio Lower Upper

152 100

115 56.1 38.3 114.9

150 157.6 0.0 345.4

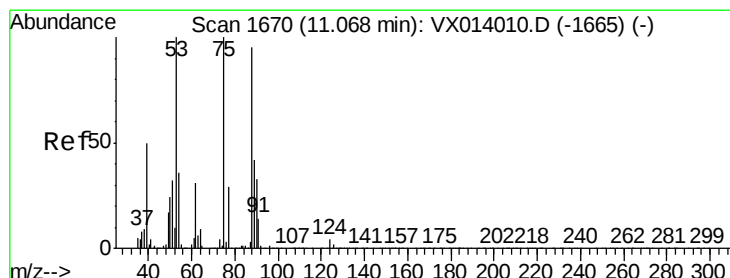
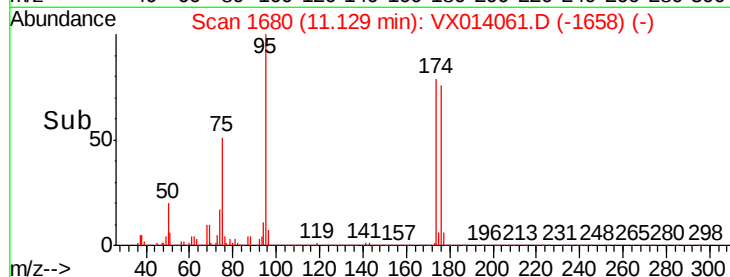
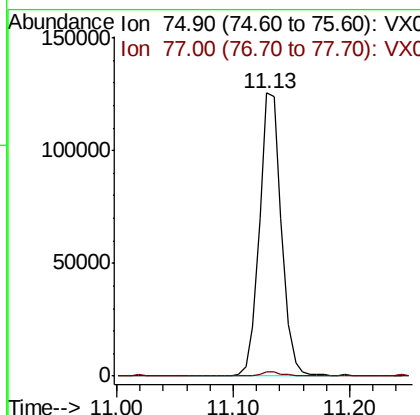
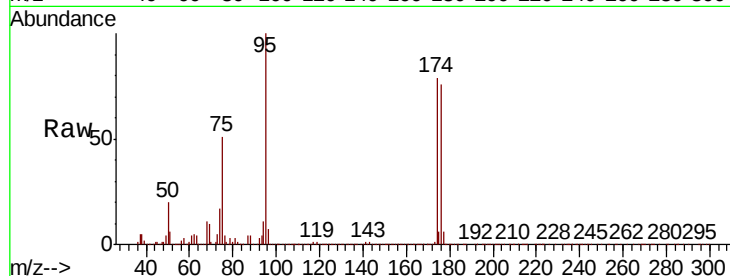




#76
 1,2,3-Trichloropropane
 Concen: 23.854 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX014061.D
 Acq: 17 Dec 2019 18:56

Instrument :
 MSVOA_X
 ClientSampleId :
 MW203D2-20191207

Tot Ion: 75 Resp: 164165
 Ion Ratio Lower Upper
 75 100
 77 1.3 19.3 57.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.329 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. 0.06 min
 Lab File: VX014061.D
 Acq: 17 Dec 2019 18:56

Tgt Ion: 75 Resp: 164165
 Ion Ratio Lower Upper
 75 100
 53 0.2 76.7 115.1#
 89 0.4 34.6 51.8#

